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PAVLEN

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YAKOVLEV, A.V.; ANDREYEV, Ye.S., retsenzent, redaktor; BERKIN-
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(Continued on next card)

ANDREYEV, A.V., (continued) Card 3.

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(Chemistry, Organic)

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KLESHEVA, Ye.P., redaktor; SHIKIN, S.T., tekhnicheskiy redaktor

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2-1

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ASB 51.8 METALLURGICAL LITERATURE CLASSIFICATION

BC A-1

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ASAC SLA METALLURGICAL LITERATURE CLASSIFICATION

SECTION ONE

SECTION TWO

SECTION THREE

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION SEVEN

SECTION EIGHT

SECTION NINE

SECTION TEN

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SECTION TWENTY-THREE

SECTION TWENTY-FOUR

SECTION TWENTY-FIVE

SECTION TWENTY-SIX

SECTION TWENTY-SEVEN

SECTION TWENTY-EIGHT

SECTION TWENTY-NINE

SECTION THIRTY

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svyaz' 3 no.11:31-33 N '59 (MIRA 13:3)

1. Nachal'nik laboratorii signalizatsii i svyazi Krasnoyarskoy
dorogi (for Tsetsura). 2. Starshiye inzheneriy laboratorii signalizatsii
i svyazi Krasnoyarskoy dorogi (for all except Tsetsura).
(Railroads--Signaling) (Shielding (Electricity))

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Lit. 1055. 291 pp.

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[Machinery construction technology] Tekhnologiya mashinostroeniia.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1952. 92 p.
[Microfilm] (MLRA 7:10)

1. Ural'skiy mashinostroitel'nyy zavod, Sverdlovsk.
(Machinery industry)

PAVLOV, B.G., inzhener, redaktor; DUGINA, N.A., tekhnicheskii redaktor

[Machine and equipment design] Konstruirovaniye mashin i oborudovaniya. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1954. 126 p. (MLRA 8:6)

1. Ural'skiy zavod tyazhelogo mashinostroyeniya.
(Machinery--Design)

PAVLOV, B.G., inzhener.

Structural steel elements for machine-tractor station buildings.
Stroi.prom.32 no.1:9-10 Ja '54. (MLRA 7:2)
(Steel, Structural) (Machine-tractor stations)

Pavlov, B.G.

137-1957 12 23670

Translation from: Referativnyy zhurnal Metallurgiya, 1957, Nr 12, p 120 (USSR)

AUTHOR: Pavlov B.G.

TITLE: New Rolling Equipment of the Uralmashzavod (Novoye prokatnoye oborudovaniye Uralmashzavoda)

PERIODICAL: V sb. : Novoye i konstruirovaniye tyazh. mashin. Moscow Mashgiz, 1956, pp 94 - 102

ABSTRACT: The 1956 plan for machine construction provided for 16 units of new design. The 1150 blooming mill for India will work ingots of up to 10 tons into blooms and slabs with an output (O) of up to 2.5 million tons. The duo reversible stand with ~~rolls~~ having 1150 mm diameter and 2800 mm length is driven by two electromotors of 4000 kw each at 0 - 70 - 120 rpm. The total weight of the equipment is 5000 tons. The rail beam stand (S) 950/800 for India will roll rails and structural shapes including wide-flange beams. The duo reversible stand with ~~rolls~~ of 950 mm diameter is driven by a 4000 kw motor at 0 - 70 - 120 rpm. The finishing line with ~~rolls~~ of 800 mm diameter consists of 2 stands in triple and 1 stand in dual arrangement. A listing of auxiliary equipment is given. The

Card 1/2

New Rolling Equipment of the Uralmashzavod

137-1957-12-22676

O of the S attains 500,000 tons, the total weight of the equipment is 15,150 tons. The S being designed and intended for the production of sheet metal at the plant "Zaperozhstal", will roll strips 0.18 mm thick and up to 1,000 mm wide, with a maximum speed of 35 m/sec and with an average output of 75 - 100 t/hr. The speed of a strip passing through a continuous pickling unit is designed to be 200 m/min. The unit for continuous annealing of strips 0.2 - 0.5 mm thick at temperatures up to 680 - 720° and a passage speed of up to 5 m/sec, will work strips with a mean O of appx. 30 t/hr and a maximum of appx. 70 t/hr. The electrolytic tinplating unit will operate with a speed of 0.5 - 10 m/sec and with an output of 7 - 77 t/hr. The new continuous galvanizing unit will operate with a speed of 0.2 - 2 m/sec with an output of 10 - 15 t/hr. The two stand continuous mill "640/1400/2800", for the rolling of strips of non-ferrous metal having a width up to 2500 mm and a thickness of 3 - 6 mm, is powered by an electric motor of 4000 kw, at 80 - 120 rpm at a rate of output of 4 m/sec under metal-to-roller pressures of up to 4,600 tons.

Card 2/2

1. Blooming mills-Design
2. Rolling mills-Equipment-Design

P. G.

S/019/60/000/012/007/097
A152/A029

AUTHORS: Shtin, L. M., Pavlov, B. G., Khirdzhiyev, S. G., Yefimov,
L. A., Grinshpun, L. Ia., Somov, B. S.

TITLE: A Horizontal Hydraulic Press, e.g., a Profile-Rod or Tube Press

PERIODICAL: Byulleten' izobreteniy, 1960, No. 12, p. 12

TEXT: Class 7a, 10¹⁰. No. 129173 (644691/25, November 14, 1959).
1) This horizontal hydraulic press, e.g., a profile-rod or tube press, has the following special feature: to reduce the total weight of the press by making the bed plate of the press out of plates mounted on bolts, the main cylinders of the press stand on the cross member (beam) of the bed plate, which is split in the horizontal plane, thus enabling the weight of the individual parts of the bed plate to be reduced. 2) A press as specified in (1) distinguished by the following special feature: to enable the adapter (mundshtuk) to be moved aside, the cross member is made on the adapter side out of two halves with a horizontal split in the middle. The two halves are moved apart by hydraulic drives. 3) A press as specified in (1) distinguished by the following special feature: to simplify the manufacture of the cylinders of the press, the latter are made as through

Card 1/2

MOVNIN, Mikhail Savel'yevich; GOL'TSIKER, David Grigor'yevich;
PAVLOV, B.I., dots., kand. tekhn. nauk, retsenzent;
KRIVENKO, I.S., nauchn. red.; SHAURAK, Ye.N., red.

[Machine parts] Detali mashin. Leningrad, Sudostroenie,
1964. 323 p. (MIRA 17:12)

BYKOV, Mikhail Mikhaylovich; PAVLOV, Boris Ivanovich; YERMOLIN,
I.P., red.; STEPANOVA, N.D., red. izd-va; POPOVA, V.V.,
tekh. red.

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VASIL'YEV, Boris Aleksandrovich; KOMAROV, Yuriy Semenovich; ~~PAYLOV, Boris Ivanovich~~; GUSARCHUK, D.M., red.; PITERMAN, Ye.L., red. izd-va; KARLOVA, G.L., tekhn. red.

[Automation of production processes in the lumbering industry] Avtomatizatsiia proizvodstvennykh protsessov v lesnoi promyshlennosti. Moskva, Goslesbumizdat, 1963. 184 p.
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(Lumbering--Machinery) (Automatic control)

MOVNIN, Mikhail Savel'yevich; GOL'TSIKER, David Grigor'yevich;
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[Mechanical engineering] Tekhnicheskaya mekhanika. Lenin-
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1963. 287 p. (MIRA 16:11)
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Effect of the conditions and organization of production and
interrelations of various branches on the economic indices of
lumbering enterprises in the European part of northern Russia.
Nauch.trudy LTA no.95:61-71 '61. (MIRA 16:2)
(Russia, Northern--Lumbering--Costs)

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Collation of the original, as determined from the film: 2001.

Microfilm Slavic 370 AC

1. Gas-turbines. 2. Petroleum - Refining.
- I. Huvalov, G.I.

PAVLOV, B.I.

✓ 749. OPERATION OF GAS TURBINE PLANTS IN PETROLEUM REFINERIES.
(ОПЕРАЦИЯ ГАЗОВЫХ ТУРБИНАХ НА НЕФТЯНЫХ РАФИНАЖНЫХ ЗАВОДАХ). PAVLOV, B.I. and ANOVALOV, G.I. (Moscow: Oostoytekhicheskii, 1953, 200pp., 5.75 rubles). In English. In English. In Russian. Trans. Kuran. Ref. (Books Petrol. & Gas, Trans. Trans. Stor. Petrol), 1953, 8). Two types are described, and the faults and remedies of 50,000 hours running.

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NOV, S.V., ved. redaktor; SOKOLOVA, Ye.V., tekhnicheskiy redaktor.

[Experience in the use of gas turbines in petroleum refineries]
Opyt ekspluatatsii gazoturbinykh ustanovok na neftepererabaty-
vaiyshchikh zavodakh. Moskva, Gos. nauchno-tekhn. izd-vo neftia-
noi i gorno-toplivnoi lit-ry, 1952. 207 p. [Microfilm](MIRA 7:8)
(Gas turbines) (Petroleum--Refining)

PAVLOV, B. I.

"Increasing the Service Life of Gas Turbine Compressor Vanes
Used in Oil Refineries." Cand Tech Sci, Leningrad Polytechnical
Inst imeni M. I. Kalinin, Min Higher Education USSR, Leningrad,
1955, (KL, No 9, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical
Dissertations Defended at USSR Higher Educational Institutions
(14)

PARLOV, B.

Sept. 1964. *Iskustvennoye razvitiye i razvitiye na razvitiye* 1964.
svedeniye. *Iskustvennoye razvitiye i razvitiye na razvitiye* 1964.
leum. *Iskustvennoye razvitiye i razvitiye na razvitiye* 1964.
Porteplokhov, 1964.

207 p. illus., diagr., tables.

1964
1964
1964

PAVLOV, B

I

Опыт эксплуатации газотурбинных установок на нефтеперерабатывающих заводах /Experience in the operation of gas turbine installations of petroleum processing plants, by B. M. Pavlov i G. I. Shurakov. Leningrad, Gostotekhnizdat, 1962.

207 p. illus., diagrs., tables.

N/c
741.3.
.12

PAVLOV, B.K., inzh.; KOMBAROV, V.M., inzh.

In the track maintenance section. Put' 1 put. khoz. 9 no.2:10-11
'65. (MIRA 18:7)

1. Nachal'nik uchastka puti, stantsiya Serpukhov, Moskovskoy dorogi
(for Pavlov). 2. Stantsiya Serpukhov, Moskovskoy dorogi (for Kombarov).

ANTONOV, B.S., kand.tekhn.nauk; PAVLOV, B.K., inzh.; PODGORNYY, L.N., inzh.

Use of river icebreakers to extend the navigation period on
inland waterways. Trudy LIVT no.61:14-19 '64.

(MIRA 18:11)

FAVLOV, B.K., inst. (Yurlov)

School for the laying and maintenance of switches. Part 1 part. no. 8
no. 12:15-16 '64. (MIRA 18:1)

BORODKIN, B.S., kand.tekhn.nauk; PAVLOV, B.K., inzh.

Study of the actual operation of the pneumatic installation in
the Kama Reservoir. Rech.transp. 18 no.10:43-46 0 '59.

(MIRA 13:2)

(Kama Reservoir—Ice on rivers, lakes, etc.)

NESTURKH, M.F.; GLADKOVA, T.D.; PORSHNEV, B.F.; SHAYER, Ye.G., NIKITYUK,
B.A.; PAVLOV, E.K.; DMITRIYEV, Ye.A., LINKOVSKIY, Zh.B.;
PLOKHINSKIY, N.A.; LAVROVA, I.G.; BORISOV, G.V.

Brief news. Biul. MOIP. Old. biol. 70 no.3:127-140 My-Je '65.
(MIRA 18:10)

PAVLOV, B. I. and SHIVALOV, G. I.

"Experience in the Operation of Gas-Turbine Installations in Oil Refinery Plants" (Opyt Ekspluatatsii Gazoturbimnykh Ustanovok Na Neftopererabatyvayushchikh Zavodakh), GOSTOPTEKHNIZDAT, 1958

D 82570

PAVLOV, B.L.

Treatment of mandible fractures in the area of the cyst.
Stomatologiya 42 no.3:61-63 My-Je'63 (MIRA 17:1)

1. Iz kafedry khirurgicheskoy stomatologii (zav. - prof. A.A. K'yandskiy) I Leningradskogo meditsinskogo instituta imeni akademika I.P.Pavlova.

PAVLOV, B.L.

Extraosseous osteosynthesis in mandibular fractures. Stomatologiya
38 no.4:29-32 J1-Ag '59. (MIRA 12:12)

1. Iz kafedry stomatologii i chelyustno-litsevoy khirurgii (zav. -
prof. A.A. K'lyandskiy) I Leningradskogo meditsinskogo instituta
(dir. - dotsent A.I. Ivanov).
(JAWS--FRACTURE)

RECEIVED

[illegible]

KOSTERIN, S.I. [deceased]; PAVLOV, B.M.

Qualitative method of filling an isoteniscope with the liquid under study. Inzh.-fiz. zhur. no.11:117-119 N '64.

(MIRA 18:2)

1. Institut mekhaniki AN SSSR, Moskva.

VOLKONSKAYA, T.G.; PAVLENKO, B.M.; PLEKOV, N.N.

Calculating the compressor process in a piston type unit.
Sbor. rab. VTS MGU 4:181-211 1965. (202a) 100

PAVLOV, B.M.; POPEV, N.U.

Numerical solution of the Lagrange problem for a channel
of variable cross section. Izv. vuz. fiz. 1975, 18:11-12, 1-5.
(MIRA 18:12)

PAVLENKO, A.L.; PAVLOV, B.M.

Transverse impact against a flexible nonlinearly-elastic membrane
with a round hole. Sbor. rab. VTS MGU 4:261-286 '65. (MIRA 18:9)

PAVLENKO, A.L.; PAVLOV, B.M.; ROSLYAKOV, G.S.

Calculation of the forces engendered in an infinite filament
by transverse impacts at variable speed. Sbor. rab. VTS MGU
4:287-302 '65. (MIRA 18:9)

L 00359-66 EWT(1)/EWP(m)/EWA(d)/FGS(k)/EWA(h)/EWA(c) WW

ACCESSION NR: AT5013289

UR/3043/85/000/004/0184/0210

AUTHOR: Volkonskaya, T. G. ; Pavlov, B. M. ; Popov, N. N.

TITLE: The calculation of compression processes within piston devices

SOURCE: Moscow. Universitet. Vychislitel'nyy tsentr. Sbornik rabot, no. 4, 1965.
Chislennyye metody v gazovoy dinamike (Numerical methods in gas dynamics), 184-210

TOPIC TAGS: Lagrange problem, ideal gas, adiabatic compression, nonsteady flow, compression shock wave, unsteady shock wave

ABSTRACT: The solution of the Lagrange problem within a channel of variable cross section is solved numerically taking counterpressure into account. The motion is assumed uni-dimensional and the gas ideal. The calculations are carried out according to the method of characteristics and using standard subprograms developed at the Computer Center of the MGU for the calculation of a large class of unidimensional nonsteady gases flow through tubes. Computations were carried out for the cases of shock and shockless adiabatic compressions of a gas within the shaft of the piston device for different values of the piston mass and adiabatic index. Results seem sufficient for the understanding of gas motion patterns needed in practical applications. The shock compression calculation

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L 00359-66

ACCESSION NR: AT5013289

covers the incident unsteady shock wave as well as the one reflected from the walls and from the piston (double reflection). All calculations were carried out on the "Strela" computer of the Computer Center. Results were tested for accuracy by carrying out double calculations with differing lattice steps and a different number of successive approximations at the lattice points. An appendix contains all the pertinent computational formulas. Orig. art. has: 45 formulas, 8 figures, and 3 tables.

ASSOCIATION: Vychislitel'nyy tsentr, Moskovskiy universitet (Computer Center, Moscow University)

SUBMITTED: 00

ENCL: 00

SUB CODE: ME, DP

NO REF SOV: 003

OTHER: 000

Cord

2/2

L 00724-66 PSS-2/EWT(1)/EWP(m)/EWA/FCS(k)/ETC(m)/EWA(1) WW

ACCESSION NR: AT5013290

UR/3043/65/000/004/0211/0220

AUTHOR: Pavlov, B. M.; Popov, N. N.

TITLE: Numerical solution of the Lagrange problem within a variable cross section channel

SOURCE: Moscow. Universitet. Vychislitel'nyy tsentr. Sbornik rabot, no. 4, 1963. Chislennyye metody v gazovoy dinamike (Numerical methods in gas dynamics), 211-220

TOPIC TAGS: interior ballistics, pipe flow, ideal gas, gas flow, axisymmetric flow, Lagrange problem

ABSTRACT: The problem concerning the interior ballistics of projectiles subjected to gas pressure in tubes closed at one end was investigated by Lagrange in 1793, but no analytical solution is in existence yet. Vychislitel'nyy tsentr (Computer Center) of the MGU started in 1959 the development of a system of standard sub-programs for the numerical solution of various cases of unidimensional motion within tubes of ideal and real gases. In 1961, using these programs (based on the method of characteristics) one of the authors of the present paper solved the Lagrange problem (without counterpressure) for a constant cross section tube. The present paper investigates and solves the Lagrange problem for a tube of variable

Card 1/2

L 00724-66

ACCESSION NR: AT5013290

cross section (without counterpressure). The ideal gas motion is caused by pushing a piston into vacuum in an axisymmetric cylinder of variable cross section. The results concerning pressure distributions, and piston, gas, and sound velocities for various gas and projectile masses are given. Orig. art. has: 7 formulas, 6 figures, and 3 tables.

ASSOCIATION: Vychislitel'nyy tsentr, Moskovskiy universitet (Computer Center, Moscow University)

SUBMITTED: 00

ENCL: 00

SUB CODE: MA, ME

NO REF SOV: 008

OTHER: 000

Card 2/2

I 00721-66 EWT(1)/ETC(m)

ACCESSION NR: AT5013295

UR/3043/65/000/004/0261/0286

AUTHOR: Pavlenko, A. L., Pavlov, B. M.

TITLE: Transverse impact on a flexible nonlinearly elastic membrane with a circular opening

SOURCE: Moscow. Universitet. Vychislitel'nyy tsentr. Sbornik rabot, no. 4, 1965. Chislennyye metody v gazovoy dinamike (Numerical methods in gas dynamics), 261-286

TOPIC TAGS: transverse wave, longitudinal wave, nonlinear elasticity, elastic oscillation

ABSTRACT: The author previously presented a numerical solution of the wave problem concerning the propagation, in a flexible linearly elastic membrane, of a perturbation generated by a transverse load suddenly applied to the edge of a rigidly framed circular opening (Belonosov S. M., Pavlenko A. L., Pavlov B. M., Roslyakov G. S. Sbornik rabot VTs MGU, "Vychislitel'nyye metody i programmirovaniye," vyp. I, 1962). The present paper represents a generalization of the problem to the case of a nonlinearly elastic membrane. Under this assumption, the problem became nonlinear in the physical as well as geometrical sense. Consequently, all four families of curves in the system of differential equations of the problem become

Card 1/3

L 00721-66

ACCESSION NR: AT5013295

curvilinear and a priori it is impossible to establish a characteristic lattice. Also, the widening of the boundary opening of the membrane is assumed to proceed according to a predetermined pattern. Depending on the character of the load applied to the boundary opening and the shape of the stress-deformation ($\sigma \sim \epsilon$) diagram the forward fronts of the longitudinal and transverse perturbation waves may exhibit weak or very strong discontinuities. In particular if an impact is applied, both wave fronts are sharply discontinuous and, depending on the $\sigma \sim \epsilon$ diagram, the longitudinal front may be either a sound front or a shock front. Both fronts propagate at different velocities. The paper presents the calculation for the case when under transverse impact the $\sigma \sim \epsilon$ curve is chosen in such a manner that it leads to a sharply discontinuous transverse and longitudinal wave. The numerical calculations follow a modified method of characteristics outlined in the article and all the computational formulas are collected in an appendix. Orig. art. has: 80 formulas and 10 figures.

Card 2/3

L 00721-66

ACCESSION NR: AT5013295

ASSOCIATION: Vychislitel'nyy tsentr, Moskovskiy Universitet (Computer Center,
Moscow University)

SUBMITTED: 00

ENCL: 00

SUB CODE: MA, ME

NO REF SOV: 002

OTHER: 000

Cord 3/3

I 00720-66

ACCESSION NR: AT5013296

UR/3043/65/000/004/0287/0302

AUTHOR: Pavlenko, A. L., Pavlov, B. M., Roslyakov, G. S.

TITLE: Calculation of stresses in an infinite filament subjected to transverse impact of variable velocity

SOURCE: Moscow. Universitet. Vychislitel'nyy tsentr. Sbornik rabot, no. 4, 1965. Chislennyye metody v gazovoy dinamike (Numerical methods in gas dynamics), 287-302

TOPIC TAGS: elastic stress, elastic deformation, material deformation, transverse wave

ABSTRACT: The paper investigates the solution of the wave problem concerning the stresses generated in an elastic stretchable filament of infinite length following a transverse impact of variable velocity. The strain-stress relationship is assumed nonlinear in general. The presentation of the basic equation and of the initial and boundary conditions is followed by a description of the wave patterns and an outline of the numerical calculation of the problem using the method of characteristics described by two of the present authors (A. L. Pavlenko, B. M. Pavlov, Sbornik rabot VIs MGU "Chislennyye metody v gazovoy dinamike," no. 4, 1965, pp. 261-286). Calculations are carried out for two different filaments, both

Card 1/2

L 00720-66

ACCESSION NR: AT5013296

obeying Hooke's law. Orig. art. has: 37 formulas, 6 figures, and 1 table.

ASSOCIATION: Vychislitel'nyy tsentr, Moskovskiy universitet (Computer Center, Moscow University)

SUBMITTED: 00

ENCL: 00

SUB CODE: MA, HE

NO REF SOV: 004

OTHER: 000

JW
Card 2/2

L 1854-66 ENT(M)/EPF(c) RPL EW/JW/JW
ACCESSION NR: AP5022386

UR/0170/85/G09/003/0323/0327
536.753

AUTHOR: Kosterin, S. I. (Deceased); Pavlov, B. N.

TITLE: Experimental determination of some thermodynamic properties of composite solutions at low temperatures (to -196C)

SOURCE: Inzhenerno-fizicheskii zhurnal, v. 9, no. 3, 1965, 323-327

TOPIC TAGS: nitric acid, nitrogen tetroxide, aqueous solution, liquid propellant oxidizer, anomalous phase transition, supercooled solution, solid phase, supercooled state

ABSTRACT: The behavior of the system $\text{HNO}_3\text{--N}_2\text{O}_4\text{--H}_2\text{O}$ was studied. Two solutions of the following compositions were used: solution A, HNO_3 - 75.96%, N_2O_4 - 20.67%, H_2O - 2.4%, impurities - 0.97%; solution B, HNO_3 - 70.96%, N_2O_4 - 27.58%, H_2O - 1.3%, impurities - 0.16%. It was found that solutions A and B have some anomalous characteristics not exhibited by the neat components. Both solutions can be supercooled below -100C. At temperatures below -120C a solid phase is formed. On heating to ~ -110C the solid phase liquifies to form again a supercooled solution. Further heating to ~ -70C results in formation of another solid phase. The latter

Card 1/2

L 18640-63 EWT(m)/ENP(r)/BDS AFFTC/APGC EM
 ACCESSION NR: AR3006444 S/C124/63/000/008/V015/V015 57

SOURCE: RZh. Mekhanika, Abs. 8V112

AUTHOR: Belonosov, S. M.; Pavlenko, A. L.; Pavlov, B. M.; Roslyakov, G. S.

TITLE: Transverse shock along a membrane with a circular aperture

CITED SOURCE: Sb. rabot Vy*chisl. tsentra Mosk. un-ta, v. 1, 1962, 183-208

TOPIC TAGS: circular aperture, transverse load, bursting, longitudinal wave, stress

TRANSLATION: The problem of the propagation of waves in an infinite elastic membrane under the influence of a transverse load, suddenly applied to the boundary of a stiff frame of a circular aperture is considered. It is supposed that the load in the initial instant causes speed V at the edge and with time this edge moves forward according to a given law. The force of resistance of the medium surrounding the membrane is taken into account. The differential equation of the problem is introduced; the obtained system has the property that the propagation of its longitudinal and transverse waves are described separately. The leading of fronts of these waves because of the shock character of the load are lines of bursting

Card 1/2

L 18640-63

ACCESSION NR: AR3006444

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force. By these lines membrane at any moment of time is subdivided into three parts; the quiet region, the region of pure radial motion and the region of longitudinal-transverse motion. The problem is solved by the method of the characteristic, the condition on the lines of bursting force are determined from the laws of conservation of mass and momentum. Making the transition to finite difference equations, the author furnishes the computation equation for the points of the membrane which are found at the given moment in different regions of motion. As a numerical example, on the Strela computer the calculation for one variant of the problem, for which the initial velocity V_0 equal to $1/4$ of the velocity of propagation of the longitudinal waves was carried out. Graphs were constructed on which the shapes, speed and the acceleration of the boundary end as function of time, and position, deformation, and the stress state of the membrane for different moments of time were plotted. Yu. R. Lepik

DATE ACQ: 28Aug63

SUB CODE: AP

ENCL: 00

Cord 2/2

PAVLOV, B N.; SAFIN, I.A.; SEMIN, G.K.; FEDIN, E.I.; SHTERN, D.Ya.

Pulse method of nuclear quadrupole resonance study. Vest. AN
SSSR 34 no.11:40-43 N '64. (MIRA 17:12)

1. Kazanskiy fiziko-tekhnicheskiy institut i Institut elemento-
organicheskikh soyedineniy AN SSSR.

L 17838-65 EWT(1)/EEC(t) Feb IJP(c)/SSD(a)/AEDC(b) S/0030/64/000/011/0040/0043
 ACCESSION NR: AP5000259

AUTHORS: Parlov, B. N.; Safin, I. A.; Semin, G. K.; Fedin, E. I.; Shtern, D. Ya.

TITLE: Pulse method for investigating nuclear quadrupole resonance 21

SOURCE: AN SSSR. Vestnik, no. 11, 1964, 40-43 23

TOPIC TAGS: nuclear quadrupole resonance, spectrometer

ABSTRACT: The advantages of pulse methods for investigating nuclear quadrupole resonance (NQR) over steady-state methods are discussed. Steady-state methods can be used successfully only for samples with very perfect crystal structure. In these cases the equivalent Q of the line $Q_{eq} = \frac{\nu_0}{\Delta\nu} \sim 10^4$, where ν_0 is the NQR frequency and $\Delta\nu$ is the line width. Broadening of the NQR line, caused by disorder in the crystal structure which is often unremovable, leads not only to a decrease in signal amplitude but also to a decrease in sensitivity. The latter is caused by spurious effects with the strong modulations of frequency and magnetic field which are required. As a result, steady-state methods are useless when $Q_{eq} \leq 10^4$. However, the sensitivity of a pulse spectrometer remains practically

Card 1/3

L 17838-65

ACCESSION NR: AP5000259

constant with line width, since the initial amplitude of the nuclear induction signal and the maximum amplitude of the quadrupole spin echo signal are proportional to the integral NQR signal intensity and are only slightly dependent on the line width. It has been shown that the gain in sensitivity of the pulse method over the steady-state method is

$$4\pi \sqrt{\frac{T_1}{T_2} \frac{\Delta\nu_{ss}}{\Delta\nu_p} \frac{F_{ss}}{F_p}}$$

where T_1 is the spin-lattice relaxation time, T_2^* is the parameter of the NQR line width, $\Delta\nu_{ss}$ is the pass band of the steady-state spectrometer amplifier, $\Delta\nu_p$ is the pass band of the pulse spectrometer receiver, and F_{ss} and F_p are the respective receiver noise factors. As an example of the gain in sensitivity, the quadrupole echo signal from the As^{75} nuclei in As_2S_3 is shown. This signal is unobserved when using the steady-state method. Several examples are also given which show that frequency measurements and resolution using the pulse spectrometer are as good as those obtained by using the steady-state spectrometer. Orig. art. has: 4 equations and 1 diagram.

Card 2/3

L 17838-65

ACCESSION NR: AP5000259

ASSOCIATION: Institut radioelektroniki, Kazanskiy fiziko-tekhnicheskiy institut
(Radioelectronics Institute, Kazan Institute of Physics and Technology); Institut
elementoorganicheskikh soedineniy, Akademii nauk SSSR (Institute of Organic
Compounds, Academy of Sciences SSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP, SS

NO REF SOV: 000

OTHER: 000

Card 3/3

SAFIN, I.A.; PAVLOV, B.N.; SHTEIN, D. Ya.

Steady-state and pulse methods of studying the nuclear quadrupole resonance. Zav. lab. 30 no.6:676-684 '64 (MIRA 17:8)

PAVLOV, B. N.

PA 197T36

USSR/Engineering - Welding, Bridges

Apr 51

"Application of Electric Welding in Reconstruction of Highway Bridges," B. N. Pavlov, Engr

"Avtozen Delo" No 4, pp 21-24

Describes 2 examples of welding operations during reconstruction of 248-m multi-span bridge and 150-m 2-span bridge. Main beams 2,816 and 2,700 mm high had to be partially replaced.

197T36

PAVLOV, B.N., inzh.

Bases for the classification of protective metal coatings
Standartizatsia 22 no.6:81 M-D '58. (MI 1A 11:12)
(Corrosion and anticorrosives--Standards)

AUTHOR: Pavlov, B.N., Engineer SOV/28-58-6-26/34

TITLE: The Principles of a Classification of Protective
Covers for Metals (Osnovy klassifikatsii zashchit-
nykh pokrytiy metallov)

PERIODICAL: Standartizatsiya, 1958, Nr 6, p 81 (USSR)

ABSTRACT: The present standards for protective covers do
not contain a unified system of technical re-
quirements, designations, and methods for checking
the quality of the covers. It is here recommended
to develop a new standard to be based on the anti-
corrosion properties of the covers, e.g. covers
for tropical and sea climates, for rooms with
high humidity, for parts in hermetic casings, etc.
These groups may be subdivided for outer covers
in industrial regions, for parts which are often
touched, for parts used in rooms which are not

Card 1/2

L 63390-65 EWT(1)/EWA(j)/EWA(b)-2 JK

ACCESSION NR: AP5020095

UR/0016/65/000/008/0072/0074
616.981.455-008.97-039.8

AUTHOR: Pavlov, B. P.; Pokrovskaya, Ye. V.

TITLE: Discovery of *P. tularensis* in the lymphatic node of man two years and three months after contracting the disease

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 8, 1965, 72-74

TOPIC TAGS: Pasteurella tularensis, tularemia

ABSTRACT: The authors describe the case history of a 53 year old man from whose right axillary lymph node a tularemia culture was isolated more than 2 years after he contracted the disease. The lymph node was at the site of an old tularemia bubo which had not become resorbed. The authors ascribed the prolonged viability of the causative agent to the fact that the patient was not treated with antibiotics during the acute phase of the disease (he did not receive streptomycin until he was hospitalized, 43 days after he first felt sick).

ASSOCIATION: Tsentral'nyy institut usovershenstvovaniya vrachey (Central Institute

Card 1/2

L 63390-65

ACCESSION NR: APS020095

of Postgraduate Medicine); Stravropol'skaya 2-ya gorodskaya infektsionnaya
bol'nitsa (Second Stavropol City Hospital for Infectious Diseases); Krayevana
sanitarno-epidemiologicheskaya stantsiya (Regional Sanitary-Epidemiological
Station)

SUBMITTED: 13Oct64

ENCL: 00

SUB CODE: LS

NO REF SOV: 010

OTHER: 005

Card

2/2

PAVLOV, B.P., red.; KARASIK, N.P., tekhn. red.

[The All-Union Conference on Industry and Construction] Vse-rossiiskoe soveshchanie po promyshlennosti i stroitel'stvu; materialy. Sokrashchennyi stenograficheskiy otchet. Moskva, Sovetskaya Rossiya, 1963. 293 p. (MIRA 16:6)

1. Soveshchaniye sekretarey kraykomov, obkomov, gorkomov KPSS, partiynykh komitetov promyshlenno-proizvodstvennykh zon sovместno s rabotnikami promyshlennosti i stroitel'stva RSFSR, Moscow, 1963.

(Russia--Industries--Congresses)

BYCHKOV, D.V., doktor tekhn.nauk, prof.; MIROV, M.O.; LUNEV, Vasil'y Ivanovich, kand.tekhn.nauk, dots.; IVANOV, Grigoriy Mikhaylovich, kand.tekhn.nauk.; PAVLOV, B.P., prof., doktor tekhn.nauk, retsenzent; KOBETS, L.G., kand.tekhn.nauk, retsenzent; UDOVENKO, S.A., inzh., retsenzent; BOGOMOLOV, G.I., inzh., retsenzent; BORODINA, I.S., red. izd-va; KAPLAN, M.Ya., red.izd-va; PERSON, M.M., tekhn. red.; UL'KINA, Ye.A., tekhn.red.

[Engineering mechanics] Tekhnicheskaya mekhanika. Pod obshchei red. D.V.Bychkova. Moskva, Gos.izd-vo lit-ry po stroit. i arkhitekt. Pt.1. Bychkov, D.V., and M.O.Mirov [Theoretical mechanics] Teoreticheskaya mekhanika. Izd. 2-oe. 1957. 282 p. Pt.2. Lunev, V.I. [Resistance of materials] Soprotivleniye materialov. Izd. 2-oe, perer. 1957. 255 p. Pt.3. Ivanov, G.M. [Statics of structures] Statika sooruzhenii. 1957. 226 p. (MIRA 11:2)
(Mechanics, Applied) (Strength of materials)

PAVLOV, B.P.

Keeping sketches on tacheometric surveying in large scales. 7000.
1 kart. no. 6:74 Je '57. (MLA. 10:1)
(Topographical surveying)

PAVLOV, B. P.

ZIMAKOVA, Ye. I.; PAVLOV, B. P.

Rare case of colitis caused by protozoa. Vrach.delo no.11:1207
N 56. (MIRA 10:3)

1. Klinika infektsionnykh bolezney (zaveduyushchiy - dotsent L.V.
Yarovoy) Stavropol'skogo meditsinskogo instituta.
(COLITIS) (PROTOZOA, PATHOGENIC)

FAVLOV, B.P.

Functional state of the cerebral cortex in tularemia. Uch.
zap. Stavr. gos. med. inst. 12:82-83 '63. (MIRA 17:9)

1. Kafedra normal'noy fiziologii (zav. prof. V.G. Budylin)
Stavropol'skogo gosudarstvennogo meditsinskogo instituta i
Gorodskaya bol'nitsa goroda Stavropolya (glavnyy vrach
G.M. Romenskaya).

ACCESSION NR: AP4043423

8/0147/64/000/003/0079/0086

AUTHOR: Samoylov, Ye. A., Pavlov, B.S.

TITLE: Oscillations of a semi-spherical shell filled with a liquid

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 3, 1964, 79-86

TOPIC TAGS: shell, semispherical shell, shell oscillation, liquid filled shell, elastic shell

ABSTRACT: The authors consider the axisymmetrical oscillations of a thin elastic shell having the form of a hemisphere and filled with a liquid. Differential equations of the shell based on the momentless theory are used, with no consideration of tangential forces, and a finite system of differential equations is derived for the oscillations of a shell with a liquid. The hydrodynamic pressure is found by means of a Lagrange-Cauchy integral, in which the determination of the velocity potential requires solution of the Neumann problem for a semi-spherical shell. The problem of the velocity potential for a semi-spherical cavity with rigid walls has been solved elsewhere in the literature. In the present article, a similar problem, but with different boundary conditions, is considered. The solution given is for an ideal liquid, the free surface of which remains

Card 1/4

ACCESSION NR: AP4043423

planar (that is, the development of waves on the surface is not considered). The determination of the velocity potential is shown to resolve itself to a solution of a Laplace equation, written with specific polar coordinates and boundary conditions which are given in the paper. An expression is obtained

$$\begin{aligned} (A_k M_k \omega_k^2 - \Omega^2 (A_k M_k - \sum_{n=0}^H A_n \beta_{kn})) - \Omega^2 B (L_n - \gamma_n) &= 0, \\ k &= 0, 1, 2, \dots, H, \\ B - \Omega^2 B (\alpha_1 + \alpha_2) - 2\Omega^2 A_0 \alpha_1 &= 0 \end{aligned} \quad (1)$$

from which the approximate values of the natural frequencies and forms of the oscillations of the liquid-filled shell can be determined. For an experimental verification of the theoretical conclusions drawn in the article, tests were conducted with a plastic hemisphere filled with water and fastened to an electrodynamic vibrator (See Figure 1 in the Enclosure). The oscillations from a All-11 audio-frequency

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generator were in order to determine the frequencies on the surface of the hemisphere, four wire-type resistance gauges were glued in each of the two planes (I-I and II-II). The gauge signals were boosted by a UT-SI-VT-12 universal tensometric unit, and the oscillations were recorded by a K-9-21 loop oscilloscope. A comparison of experimental and calculated data showed a high degree of agreement. Orig. art. has: 1 table, 4 figures and 34 formulas.

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Cord 3/4

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Cand Geol-Min Sci - (diss) "Engineering-geological characteristics of rock of the Noril'sk Mining-Industrial Rayon." Moscow, 1961. 23 pp; 1 page of tables; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Lenin and Order of Labor Red Banner State Univ imeni M. V. Lomonosov); 110 copies; price not given; list of author's works on page 23 (14 entries); (KL, 5-61 sup, 180)

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B.S., red.; RODIONOV, N.V., red.; SHCHERBAKOV, A.V., red.;
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18(5)

30V/132-52-4-10/17

AUTHOR: Pavlov, B.S.

TITLE: The Geological-Engineering Districting of Regions of Mineral Deposits According to the Results of Geological-Prospecting Works.

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 4, pp. 46-48 (USSR)

ABSTRACT: The author finds that numerous geological-prospecting parties and expeditions working in various parts of the USSR are not doing their job properly, because the Gosudarstvennaya komissiya po zapasam poleznykh iskopayemykh (the State Commission for Reserves of Mineral Deposits) (GKZ) at the Council of Ministers of the USSR omitted in its instruction the obligation of these parties to submit detailed reports on the engineering and geologic conditions of the region where a given mineral deposit was located. This omission forces the planning institutions

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The Geological-Engineering Districting of Regions of Mineral Deposits According to the Results of Geological-Prospecting Works.

to organize special sections of engineers and geologists to be sent to the same region where a party is already working, thus creating a useless duplication involving additional expenses and loss of time. Moreover, such hastily conducted research often reaches wrong conclusions, an elaborate and even partly-executed plan of exploitation has to be abandoned and a new one developed. Therefore the author recommends the inclusion of a special chapter in the report the geologic prospecting parties and expeditions have to submit to the GKZ. The chapter must have the following title: "Mining and Technical Conditions of the Exploitation of the Deposit." "VSEGINDEC" must develop this instruction.

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